

Fig. 1

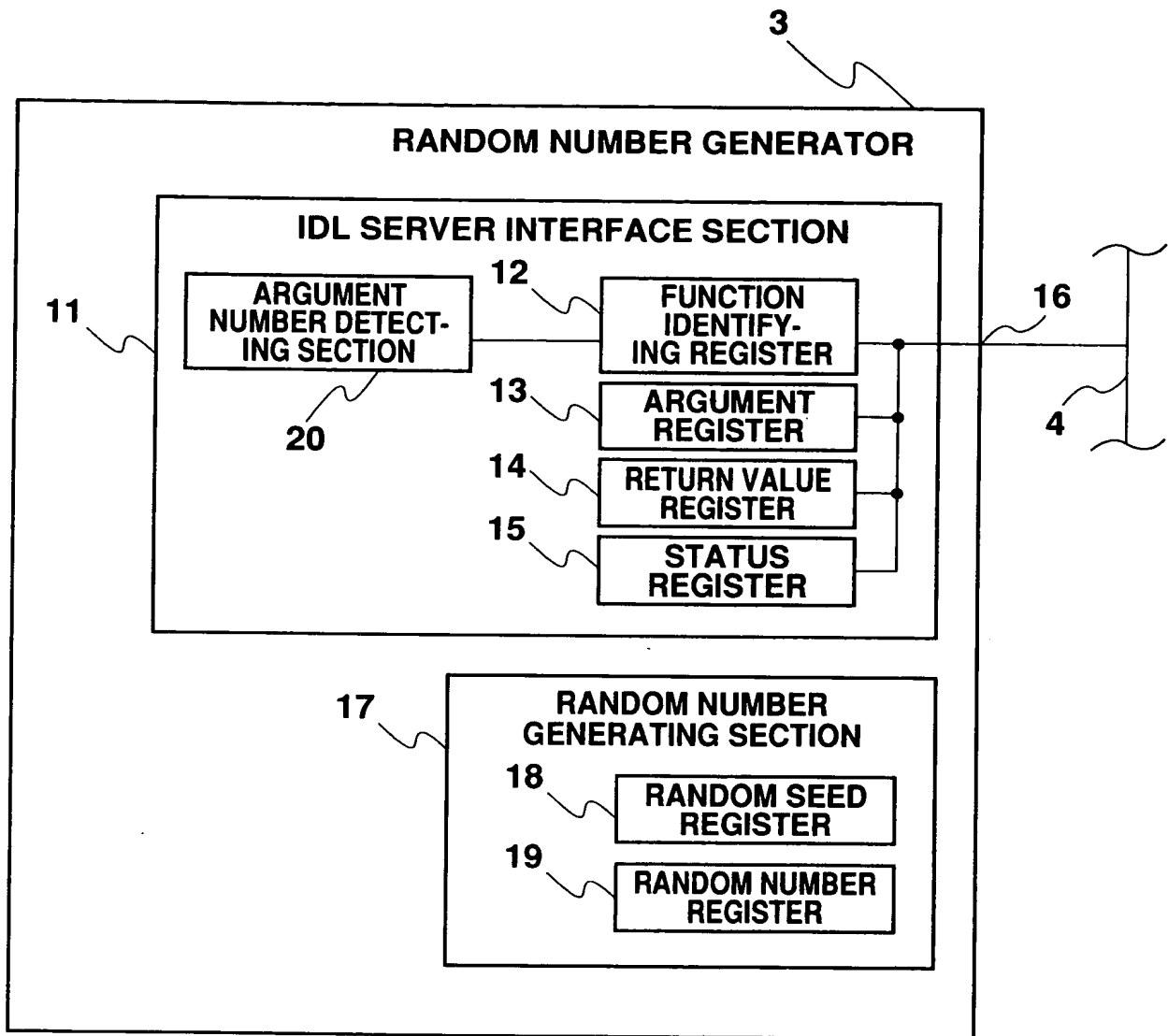


Fig. 2

```

interface randomGenerator{
    void setSeed( in double seed );
    double getRandom();
};

```

Fig. 3

```

/* part common to IDL interface */
/* status register value */
#define Executing 1
#define Finished 2
#define Requesting 3

/* function for accessing register */
void putFunctionID( FID );
void putDoubleArg( double );
double getDoubleReturn();
int getStatus();

/* randomGenerator unique part */
/* definition of function identification value */
#define FID_setSeed 1
#define FID_getRandom 2

/* proto-type declaration in C-language function, corresponding to function */
void setSeed( double seed );
double getRandom()

```

Fig. 4

```
void setSeed( double seed )
{
    putFunctionID( FID_setSeed );
    putDoubleArg( seed );
}

double getRandom( )
{
    putFunctionID( FID_getRandom );
    while( getStatus() != Finished )
        ;
    return getDoubleReturn( );
}
```

Fig. 5

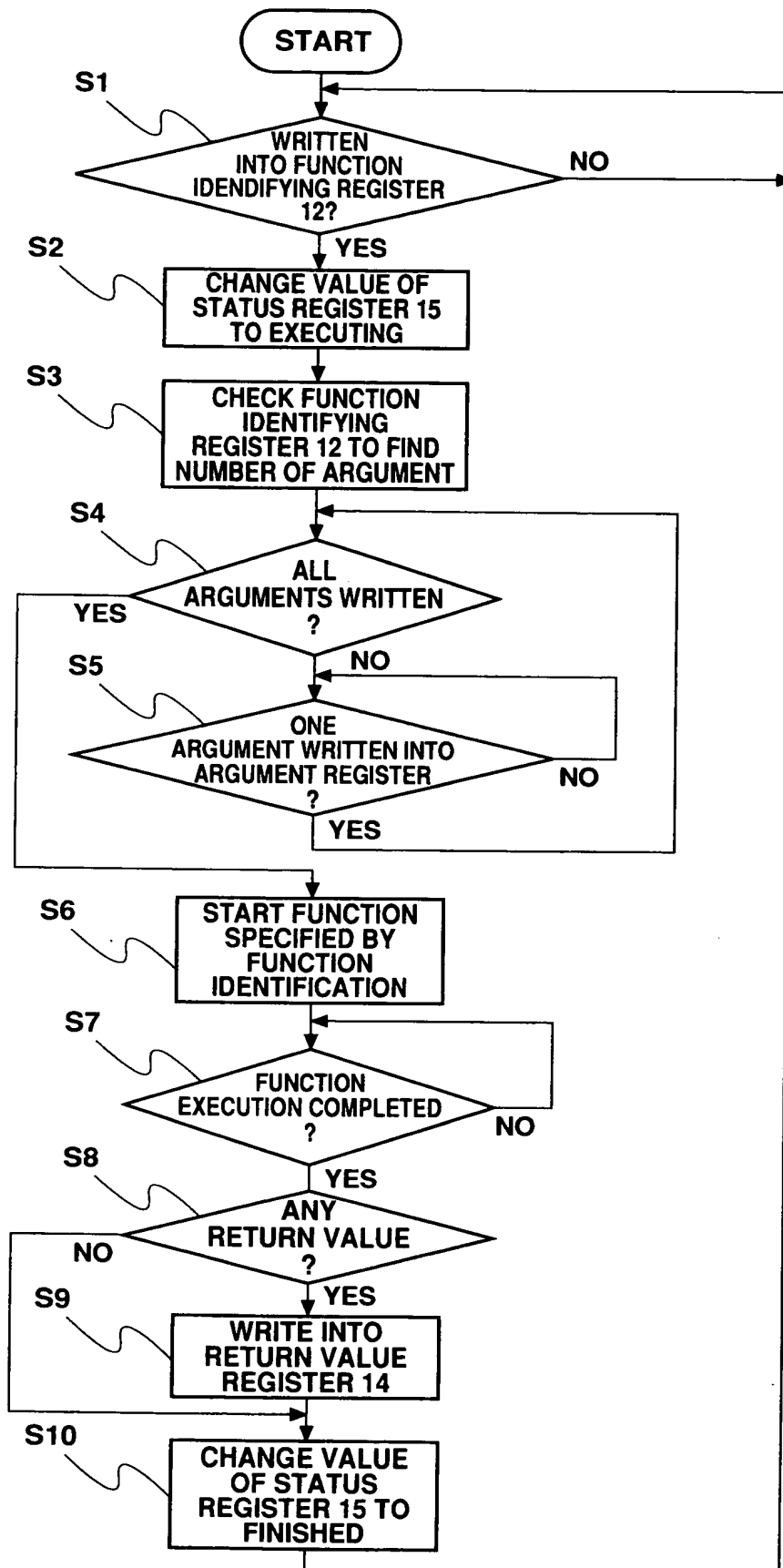


Fig. 6

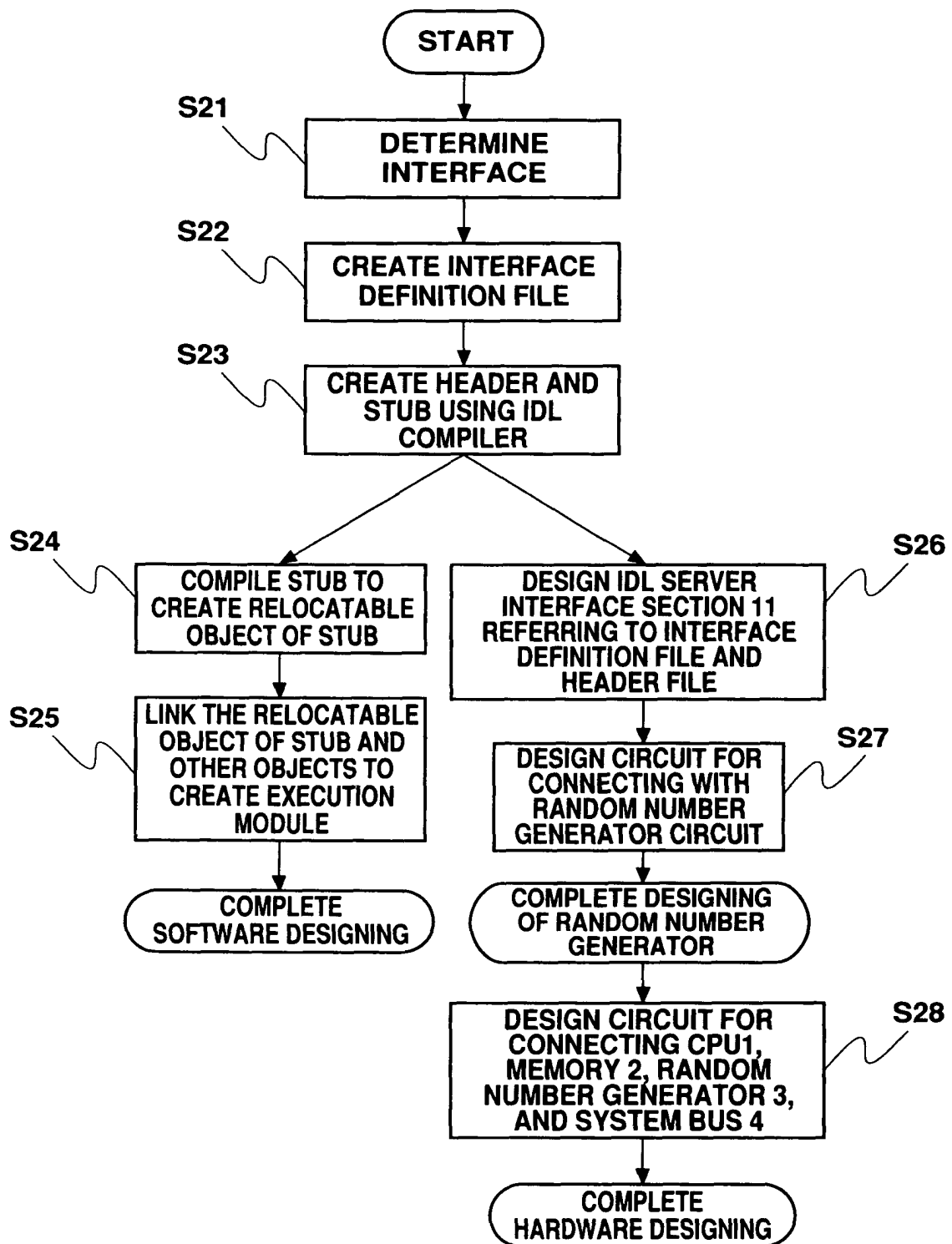


Fig. 7

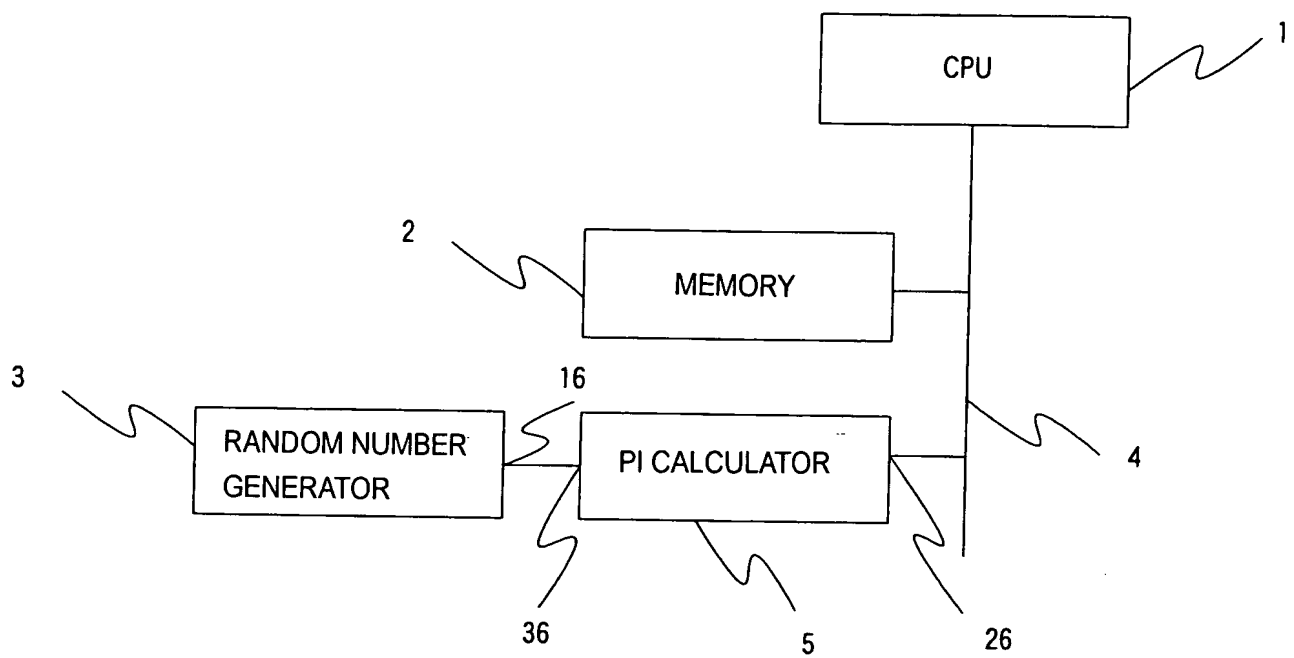


Fig. 8

```
interface piCalculator{  
    void setCount( in int count );  
    double getPi();  
};
```

Fig. 9

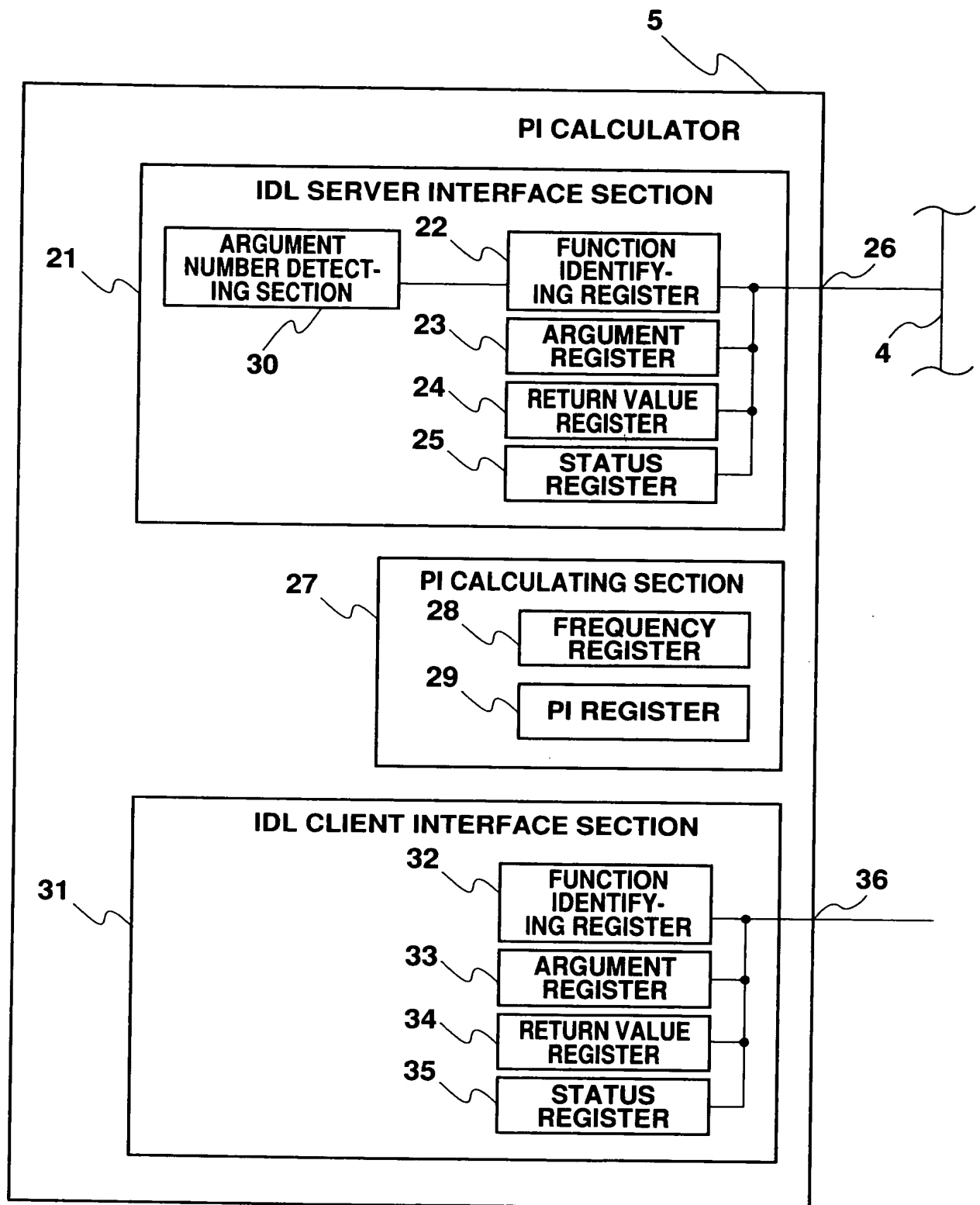


Fig. 10

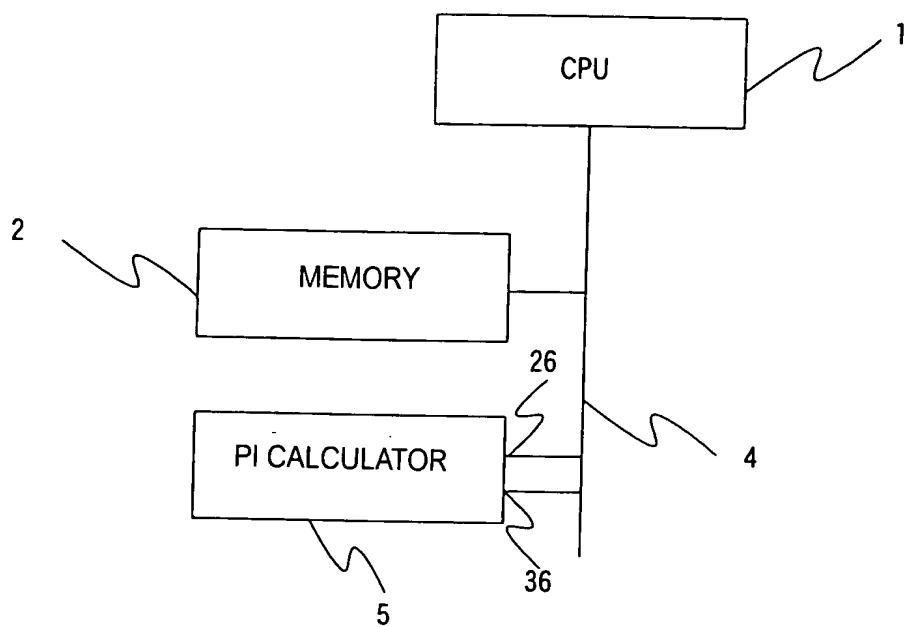


Fig. 11

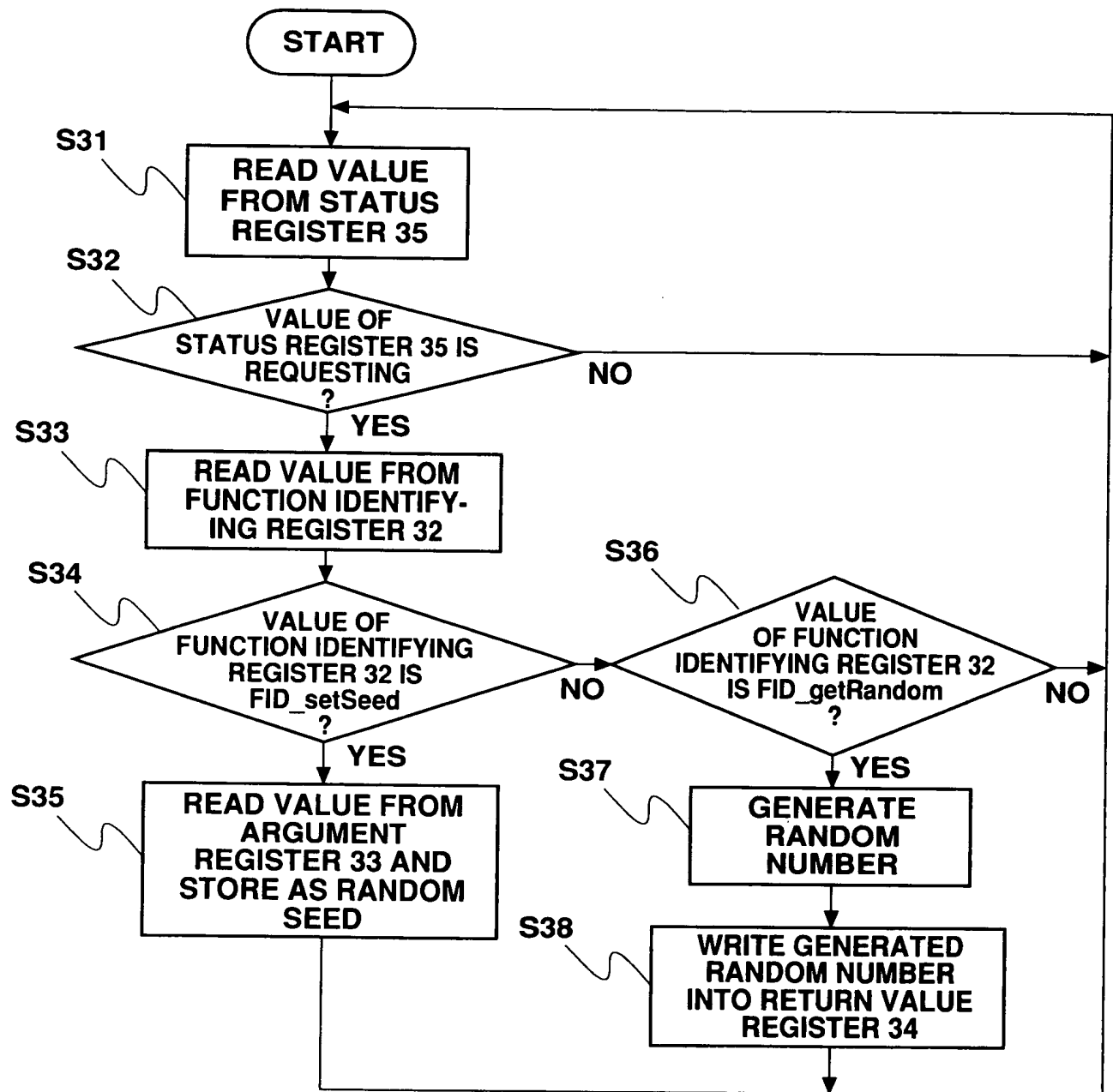


Fig. 12

```

/* part common to IDL interface */
/* status register value */
#define   Waiting      0
#define   Executing    1
#define   Finished     2
#define   Requesting   3

/* function for accessing register */
FID   getFunctionID( );
double getDoubleArg();
double putDoubleReturn( double );
int   getStatus();

/* randomGenerator unique part */
/* definition of function identification value */
#define   FID_setSeed      1
#define   FID_getRandom    2

/* proto-type declaration in C-language function, corresponding to function */
void   setSeed( double seed );
double getRandom()

```

Fig. 13

```

main()
{
    while(1){
        while( getStatus() != Requesting )
            ;
        switch( getFunctionID() ){
            case FID_setSeed:
                setSeed( getDoubleArg() );
                break;
            case FID_getRandom:
                putDoubleReturn( getRandom() );
                break;
        }
    }
}

```

Fig. 14

